



PARTS OBSOLESCENCE WORKSHOP



PLANS, SUCCESSES & ISSUES OF USING PEMs

22 APRIL 1997

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ARMY TACMS-BAT PROJECT OFFICE



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PLANS, SUCCESSES & ISSUES OF USING PEMs



OUTLINE

- ★ **SUCCESSES**

- ★ **ISSUES**

- ★ **PLANS/ACTIVITIES**

- ★ **SUMMARY**



SUCCESSSES



MICROELECTRONICS OBSOLESCENCE INTEGRATED PROCESS IMPROVEMENT TEAM (MOIPIT)

- ◆ CHARTER SIGNED 7 AUGUST 1995
- ◆ FOCAL POINT FOR OBSOLESCENCE WITHIN ARMY TACMS-BAT PROJECT OFFICE
- ◆ PROVIDES VEHICLE TO MOVE FROM A REACTIVE TO A PROACTIVE APPROACH TO OBSOLESCENCE MANAGEMENT
- ◆ MANAGEMENT's UNQUALIFIED SUPPORT



MOIPIT MEMBERS



◆ PROJECT OFFICE

PROCESS ASSESSMENT DIVISION

SYSTEM ENGINEERING DIVISION

◆ SYSTEM ENGINEERING PRODUCTION DIRECTORATE (SEPD)

INDUSTRIAL OPERATIONS DIVISION

◆ CONTRACTORS/SUBCONTRACTORS

LOCKHEED MARTIN VOUGHT SYSTEMS

HONEYWELL

B.F. GOODRICH (SIMMONDS PRECISION)

KDI

NORTHROP GRUMMAN (BAT SUBMUNITION)



MOIPIT ADVANTAGES



- ◆ **TEAM APPROACH TO SOLVING OBSOLESCENCE PROBLEMS**
- ◆ **INCREASED VISIBILITY**
- ◆ **UPDATED KNOWLEDGE BASE**
- ◆ **PREDICT & MANAGE SYSTEM OBSOLESCENCE TO PREVENT FUTURE PROBLEMS**



HARDWARE SUCCESSES



ARMY TACMS BLOCK IA IMPROVED MISSILE GUIDANCE SET (IMGS)

◆ REPLACEMENT OF GG1328 RLG WITH GG1320 DIGITAL RLG

SAVINGS/MISSILE

\$4,500

◆ NDI EMBEDDED GPS RECEIVER (EGR)

SAVINGS/MISSILE

\$13,500

◆ FUTURE PLANS INCLUDE RECONFIGURATION

SAVINGS/MISSILE

\$3,500



PEO PEM COMMITTEE



- ◆ **ARMY TACMS-BAT HAS BEEN ASSIGNED THE LEAD PROJECT OFFICE**
- ◆ **MEMBERS: AGMS, CCAWS, NLOS, JAVELIN, MLRS, ARMY TACMS-BAT AND STINGER PROJECT OFFICES**
- ◆ **PROJECT OFFICES SHARE INFORMATION AND DATA**
- ◆ **SHARE OPPORTUNITIES FOR AND COST OF TESTING**
- ◆ **EXCHANGE LESSONS LEARNED**



ISSUES



- ◆ **DIMINISHING SOURCES FOR THE MANUFACTURE OF MILITARY PARTS**
- ◆ **QUALITY OF COMMERCIAL VENDORS IS VARIABLE**
- ◆ **TRANSITION TO PERFORMANCE SPECIFICATIONS**
- ◆ **LONG TERM DORMANT STORAGE RELIABILITY**
- ◆ **OBSOLESCENCE ! OBSOLESCENCE! OBSOLESCENCE!**



RISK REDUCTION ACTIVITIES ONGOING OR PLANNED



◆ ACTUAL AGING STORAGE STUDY

9 GG1320 RLGs

4 EGR CARDS

9 BAT FLIGHT DATA RECORDERS

◆ ACCELERATED AGING STUDY

6 BAT FLIGHT DATA RECORDERS

◆ PEM STUDY FOR ARMY TACMS-BAT PROGRAM

SELECTED ARMY TACMS MISSILE AND BAT SUBMUNITION PARTS
WILL BE TESTED IN HARSH ENVIRONMENTS TO INCLUDE
THERMAL CYCLING AND HIGH ACCELERATED STRESS TESTING
(HAST)



RISK REDUCTION ACTIVITIES ONGOING OR PLANNED



INTEGRATION OF PEMs INTO ARMY TACMS-BAT SYSTEMS

APPROACH

- ◆ GOVERNMENT/CONTRACTOR COOPERATION
- ◆ DEVELOP AND IMPLEMENT PROCESSES & PROCEDURES TO MANAGE RISK
- ◆ ESTABLISH A COMPREHENSIVE PARTS CONTROL PLAN
- ◆ CONTINUE A PROACTIVE APPROACH TO PARTS OBSOLESCENCE MANAGEMENT AND PLANNING



SUMMARY



DUE TO OBSOLESCENCE; THE RAPID DEPARTURE OF MILITARY INTEGRATED CIRCUIT VENDORS; AND COST RESTRAINTS, THE ARMY TACMS-BAT PROJECT OFFICE RECOGNIZES THAT THE USE OF PEMs WILL BE INEVITABLE IN THE FUTURE. WE WANT TO MEET THE CHALLENGE HEAD ON AND ACCOMPLISH THIS IN THE BEST MANNER POSSIBLE.